Regeneratable, low flow resistance, adsorber for vent gases - comprises fluidised bed and fixed bed sections

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Abstract of **DE4020246**

Vapours are adsorbed from an air or carrier gas stream by passing the flow through a container of adsorbent materials comprising a first section of loose granules and a second section of fixed adsorbent. The container dimensions relative to the gas flow are such that the loose granules form a fluidised bed; entrainment loss is prevented by the porous fixed adsorbent layer which forms a significant proportion of the pressure loss but is able to reduce residual vapour in the outlet gas stream to a lower level than the fluid bed alone. USE/ADVANTAGE - Solvent recovery from gas streams , e.g. dry cleaning machine vents. Combines the low flow resistance of the fluidised bed with the higher overall recovery of a fixed bed absorber.